

APPLICATION NO.

09/773,509

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ATTORNEY DOCKET NO.	CONFIRMATION NO.				
046124-5060	3310				

EXAMINER

MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004

FILING DATE

02/02/2001

JACKSON, CORNELIUS H

ART UNIT PAPER NUMBER

2828

DATE MAILED: 12/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR
Hirofumi Miyajima

V ,				(()					
		Application	No.	Applicant(s)					
÷		09/773,509)	MIYAJIMA ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Cornelius H		2828					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1) Responsive to communication(s) filed on <u>15 October 2003</u> .									
,—	•	his action is nor							
•	The second section of the second section are to the morite in								
Dispositi	on of Claims								
	Claim(s) 1-12 and 14-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-12 and 14-21 is/are rejected. Claim(s) is/are objected to.								
6)⊠	Claim(s) <u>1-12 and 14-21</u> is/are rejected.			720					
	Claim(s) is/are objected to. Claim(s) are subject to restriction ar	nd/or election re	quirement.	SUPERVISORY PATE	nt examiner				
Applicat	ion Papers			TECHNOLOGY CE	NIEN 2000				
9)[The specification is objected to by the Exar	miner.							
10)	The drawing(s) filed on is/are: a)	accepted or b)[objected to by the	e Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 									
Attachme	nt(s)								
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-946 rmation Disclosure Statement(s) (PTO-1449) Paper No	8) o(s)	4) Interview Summa 5) Notice of Informa 6) Other:						

Art Unit: 2828

DETAILED ACTION

Acknowledgment

1. Acknowledgment is made that applicant's Amendment, filed on 15 October 2003, has been entered. Upon entrance of the Amendment, claims 1-12 were amended, claim 13 was canceled, and claims 20 and 21 were added. Claims 1-12 and 14-21 are now pending in this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-12 and 14-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Takigawa et al. (6097744). Regarding claim 1, Takigawa et al. disclose a heat sink (**Figs. 2A-E, 4A-11B, see Figs 4A-C.**) comprising a first planar member **31** having a first main face and a second main face, the second main face having a first depressed portion thereon **31C,31D**; a second planar

Art Unit: 2828

1

member 33 having a first main face and a second face, the first main face having a second depressed portion thereon, see 33C,33D col. 18, lines 36-40; and a partition 32 member sandwiched between the second main face 31C,31D of the first planar member 31 and the first main face 33C,33D of the second planar member 33, and formed with a main first face and a main second face, the partition member having a plurality of holes 32C passing through the first and the second main faces thereof, each of the plurality of holes having a substantially flat wall extending from the first main face of the partition member to the second main face of the partition member, the first main face of the partition member and the first depressed portion defining a first space having side walls with rounded corner portions at a location proximate the plurality of holes, the second main face of the partition member and the second depressed portion defining a second space having side walls with rounded corner portions at a location proximate the plurality of holes, the holes communicating the first space with the second space with areas in the first space which correspond to the holes being substantially spatially continuous and free of any dividing members; and a supply port 31A for supplying a fluid into the second space; a discharge port 31B for discharging the fluid from the first space; and a first guide member provided in the second space for controlling flow of the fluid in the second space from the supply port to an area in the first space corresponding to the holes, see col. 17, line 64-col. 20, line 19 and col. 33, line 56-col. 34, line 32.

Regarding claims 2-11, 20 and 21, Takigawa et al. disclose all the stated limitations, see Figs. 36A-D and col. 33, line 56-col. 34, line 32.

Art Unit: 2828

Regarding claims 12 and 14-16, Takigawa et al. disclose all the stated limitations, see Figs. 4A-D and col. 17, line 64-col. 18, line 48.

Regarding claims 17-19, Takigawa et al. disclose all the stated limitations, see Figs. 14A-16 and col. 24, line 63-col. 26, line 11.

Response to Arguments

4. Applicant's arguments filed 15 October 2003 have been fully considered but they are not persuasive.

Applicant argued that Takigawa et al. does not disclose or suggest the combination of a first and second spaces each having side walls with rounded corner portions at a location proximate holes communicating the first and second spaces.

In response, Takigawa et al. does teach side walls with rounded corner portions at a location proximate holes communicating the first and second spaces as can be seen in Figs. 8A-C.

Applicant argued that Takigawa et al. does not disclose or suggest the combination of the first space is formed in part by an integrally formed first and second member, see Figs. 2A-2D.

In response, Takigawa et al. does disclose the combination of the first space is formed in part by an integrally formed first and second member, as can be seen in Figs. 4A-4D and not the prior art Figs. 2A-2D.

Art Unit: 2828

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bland et al. (4494171) and Lapinski et al. (5005640) both disclose the claimed invention.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (703) 306-5981 [(703) 272-1942, after January 2004]. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

Art Unit: 2828

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098 [(703) 272-1941, after January 2004]. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

PAUL IP

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